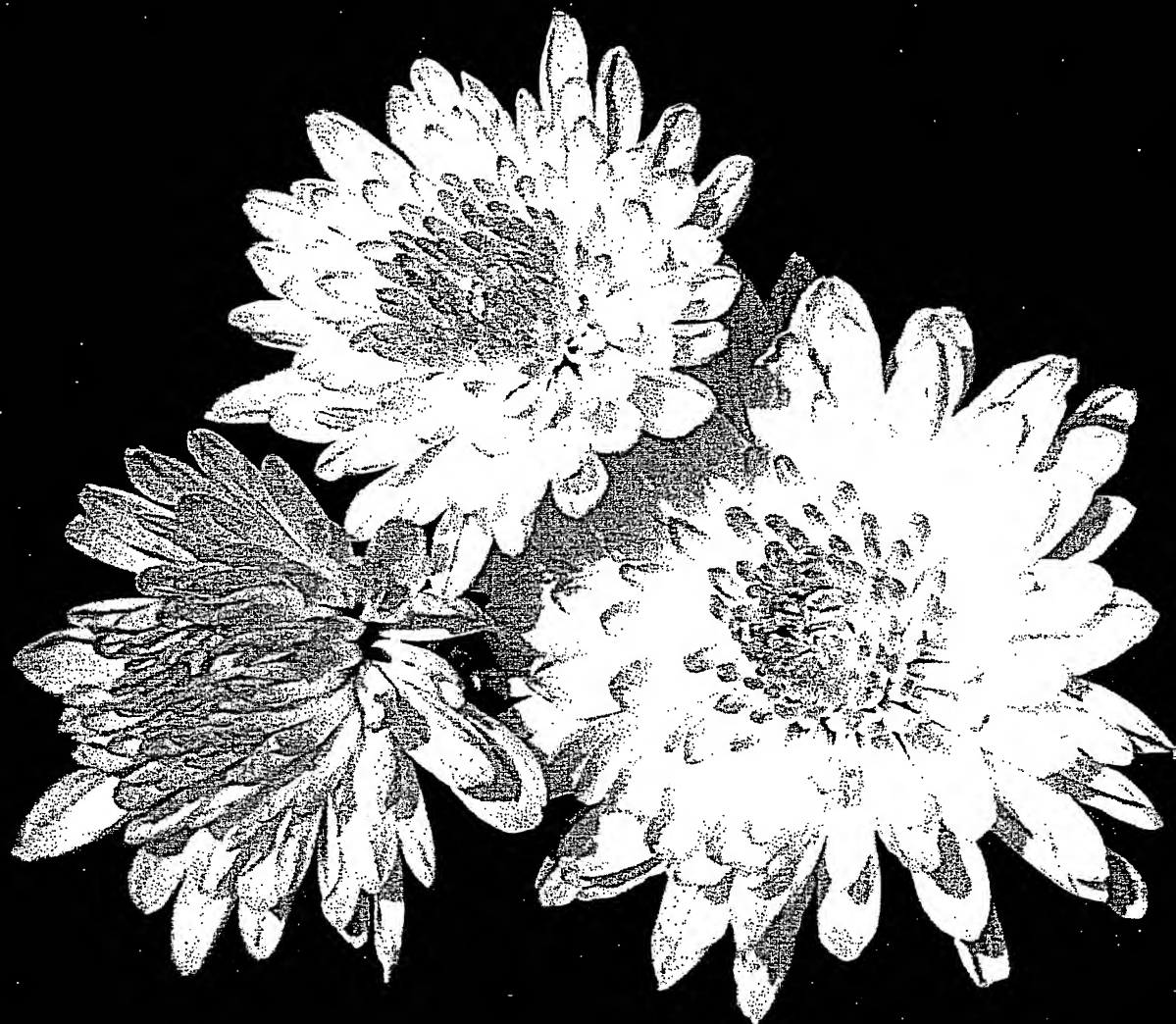
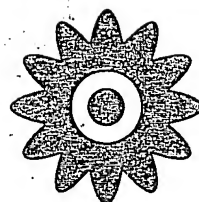
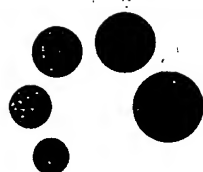


Showmakers



Gardenmum Catalog 2002



RoyalVanZanten
surprising nature

Dear Growers,

We are proud to introduce you to our company,

On July 1st, 2000, Van Zanten Cuttings B.V. (Hillegom, the Netherlands), started a "New" venture in Nipomo, CA. Nipomo was selected because of its unique climate; Moderate temperatures all year round, more than 320 days of sunshine and exceptional water quality. Royal Van Zanten LLC, produces and sells Chrysanthemum cuttings for pots, cuts, and gardens.

In cooperation with 2 world famous Chrysanthemum breeders; the Chrysanthemum Breeders Association (CBA) in Rijnsenhout, the Netherlands and Cleangro in Chichester, United Kingdom; Royal Van Zanten will be introducing an exclusive and extensive "State of the Art" product line.

With the needs of the grower in mind, we have developed a complete range of grower varieties. Our garden mum breeding program selects from 35,000 to 45,000 seedlings annually, to bring the very best colors, flower forms and habits to the market. We are doing extensive testing of these selections in North America and Canada.

Our **Showmakers** are divided in three groups, with different characteristics. This will make it easy for you to pick the varieties that will suit your purpose. In this catalog you will find a ton of introductions that will bring new excitement to the market.

New pot mum varieties for any size pot are here today, that are easy to grow, free branching and do not need any disbudding. Ask for our pot mum catalog if you are interested.

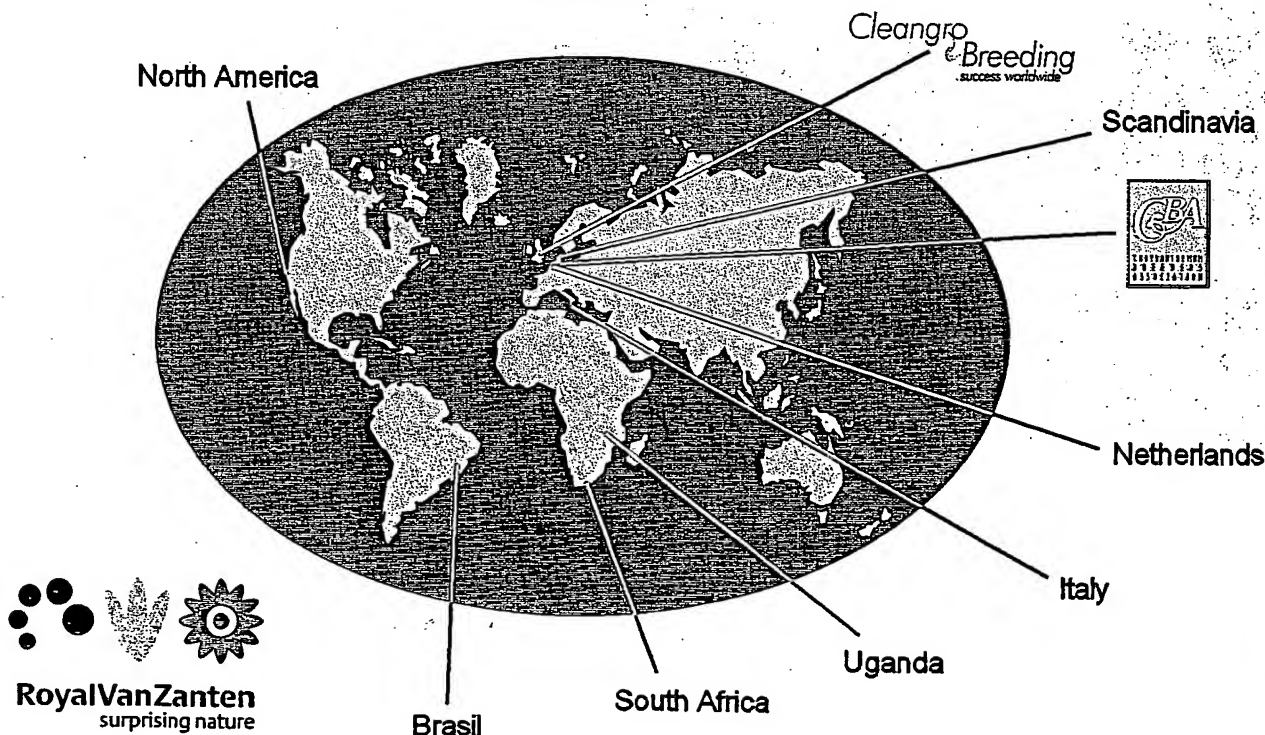
Royal Van Zanten is world reknown for its excellence in cut mums. Our Reagan family of daisies and new novelties will fill your greenhouses with the colors and forms that sell.

Royal Van Zanten, headquartered in Hillegom, the Netherlands, is active worldwide in the breeding, propagation and sale of plant material for floriculture; Including alstroemeria, freesias, lilies, tulips, and specialty items. In the last 2 decades, Royal Van Zanten has become the largest supplier of Chrysanthemum cuttings in the world.

We look forward to our future together !

Jolanda Tas
Managing Director

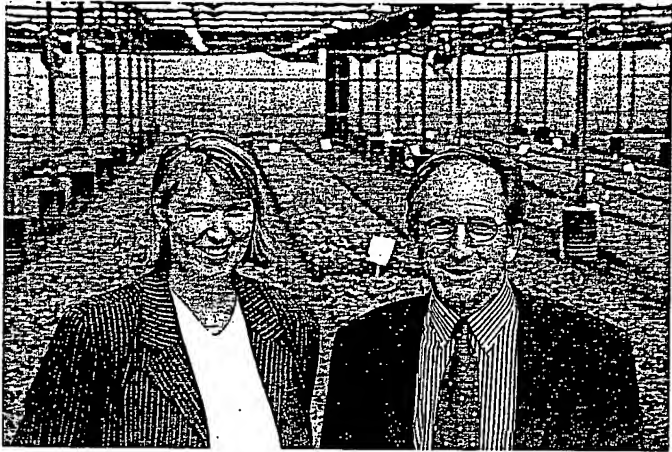
Peter Hesse
Marketing Manager




RoyalVanZanten
surprising nature

The different faces of Royal Van Zanten

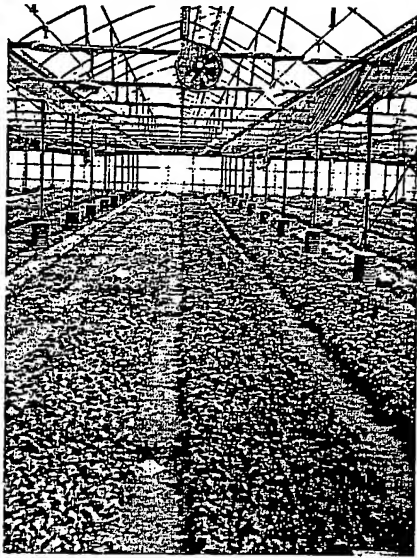
Management



Jolanda Tas
Managing Director

Peter Hesse
Marketing Manager

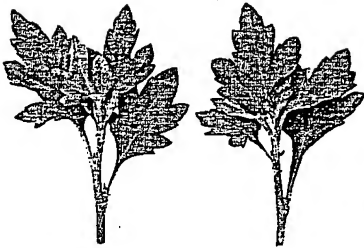
Greenhouse



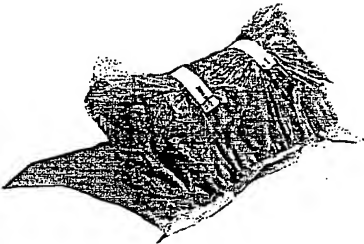
Office



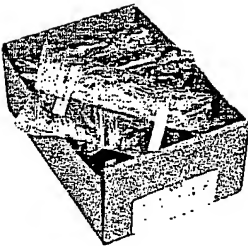
Maria Gutierrez Office Manager
Isabel Zavala Orders/Shipping
Janneth Garibay Customer Service



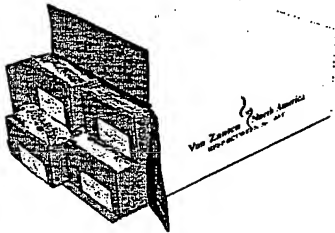
Cuttings



Packaging cuttings



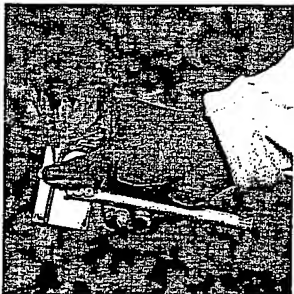
Insert boxes



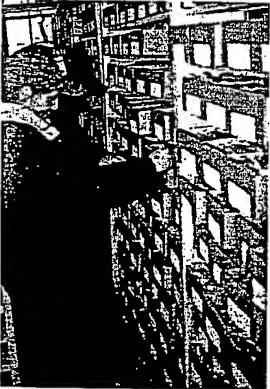
Shipping box (4000 cuttings)



Picking



Grading cuttings while
picking by using knives



oldstore



Shipping

Peter,
Have we
introduced our
new *Showmaker*
lines yet?



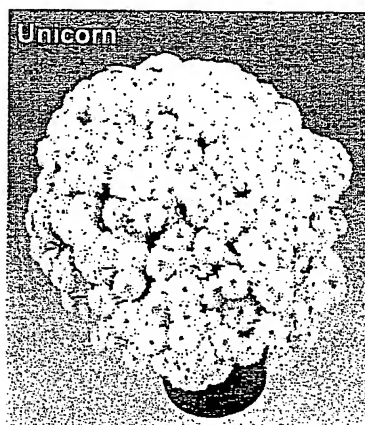
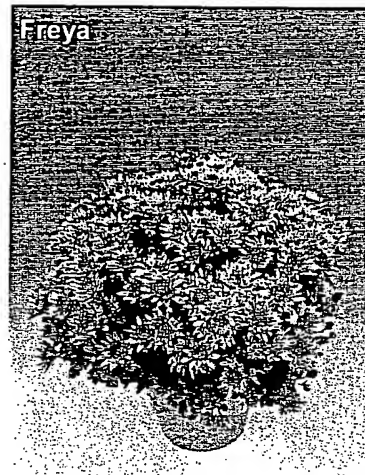
Yikes, Jolanda!
Let me tell them
about our *Grandiflora*,
Multiflora and *Multimini*
right away !!!



ShowmakersTM

Grandiflora

Showmaker Grandifloras are the classic garden mums we all love and our customers prefer. Large flowers in decorative, daisy and novel forms in all colors. Bred for brilliance and durability for increased sales and customer satisfaction. They may be grown in packs, pots, or nursery containers and will create an excellent and exciting garden mum season.

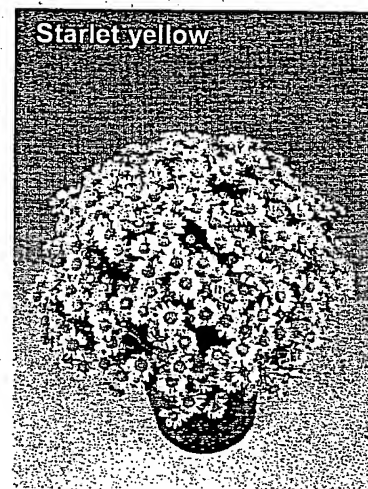


Multiflora

Our Showmaker Multifloras have intermediate size flowers and are available in many flower forms and colors. They are extremely floriferous. Finished plants display thousands of flowers in excellent round habits. They are very weather resistant with strong, but flexible stems that resist breakage during shipping and handling. Great for all size containers.

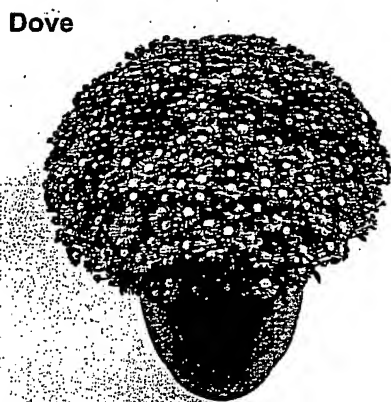
Multimini

Our newest introduction class is the Multimini. The plants grow and produce a multitude of mini flowers in incredible ball shaped displays. They may be grown in a multiple size of pots for multiple uses, for multiple sales, and multiple profits. Weather resistant with flexible stems for improved shipping and handling. Super for small pots, pans, and bowls. Grow these new varieties to create excitement and improve your variety mix.

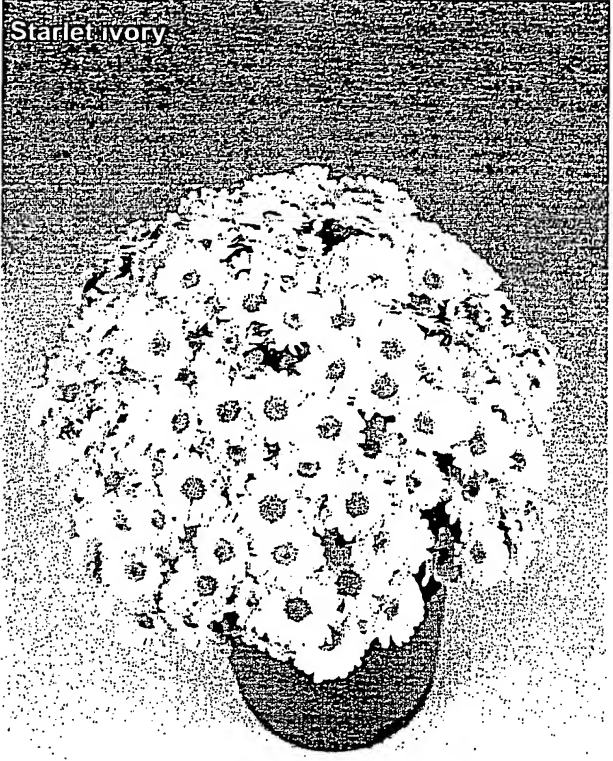




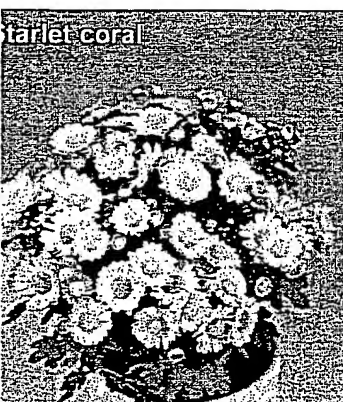
Starlet pink



Dove



Starlet ivory

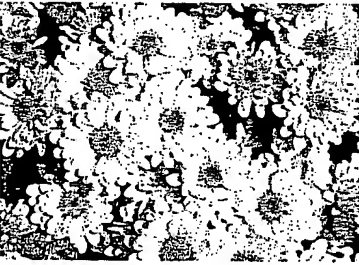


Starlet coral

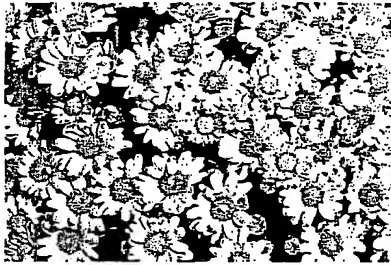


Juno

Also excellent as springmums !



Starlet ivory



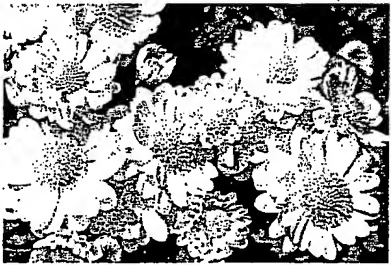
Starlet yellow



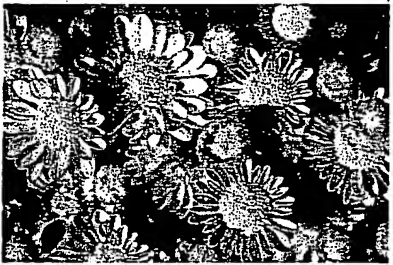
Starlet coral



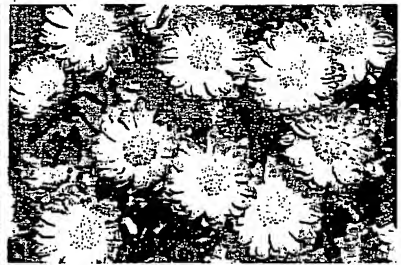
Starlet pink



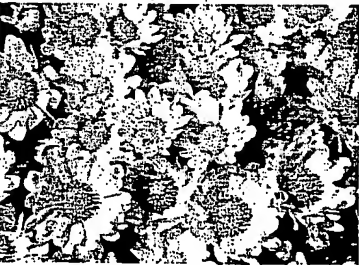
Phoebe



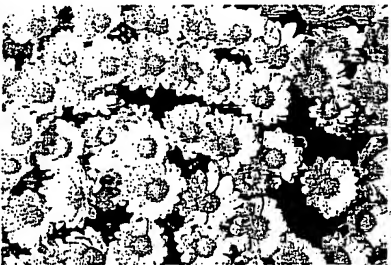
Starlet bronze



Starlet blush



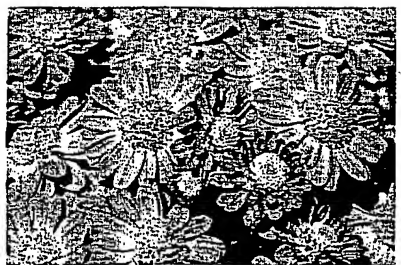
Starlet white



Juno

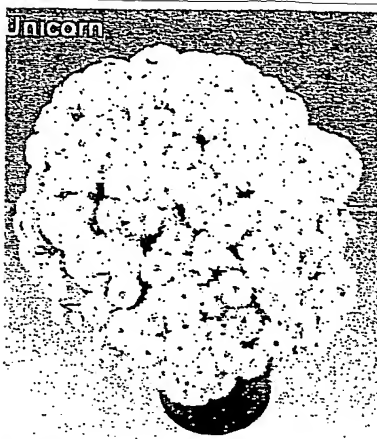


Dove bronze

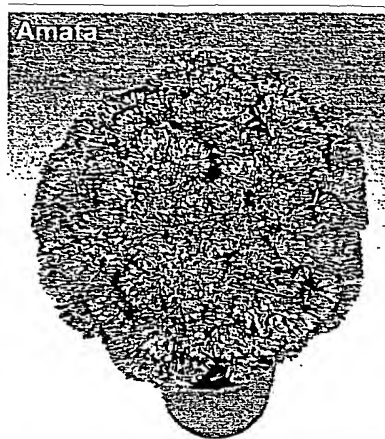


Dove

Showmakers™
Multiminí

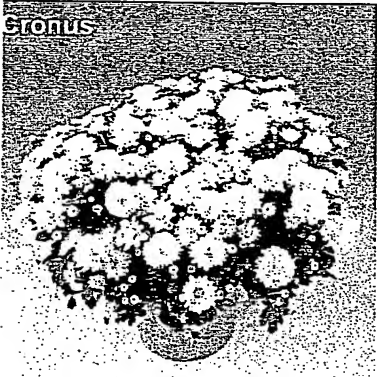
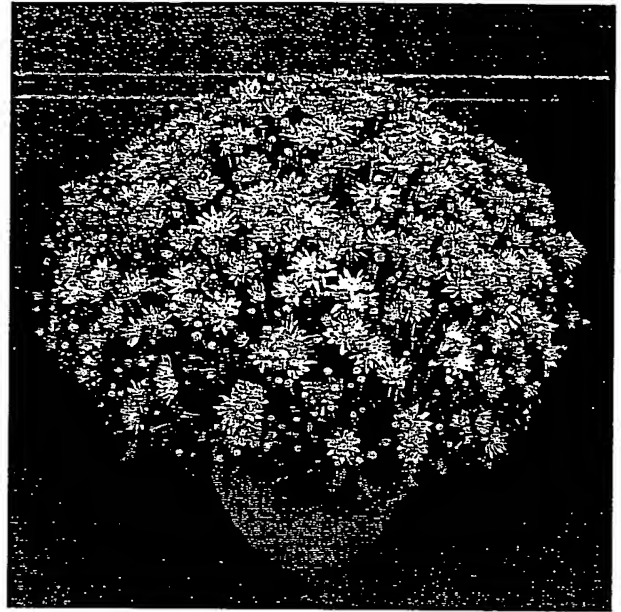


Unicorn

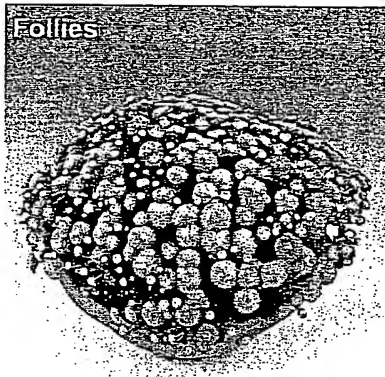


Amata

Goldfinch



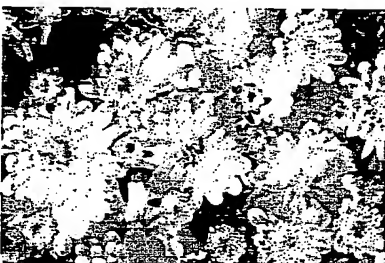
Cronus



Follies



Unicorn



Nighthawk lemon



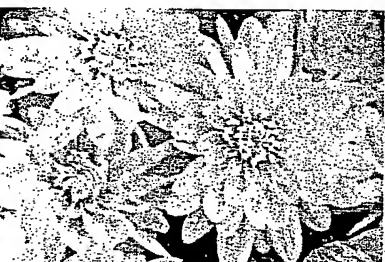
Medusa



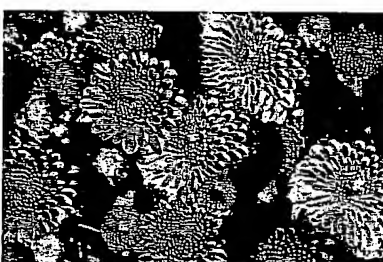
Nighthawk



Titan



Goldcrest



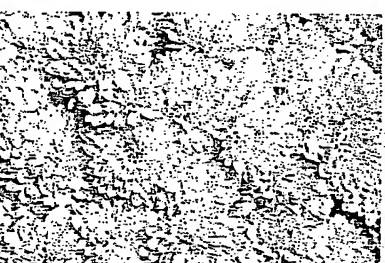
Allegro



Mars



Medea



Cronus



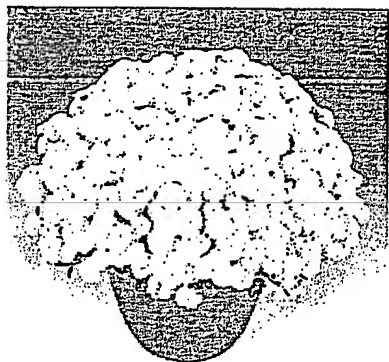
Amata



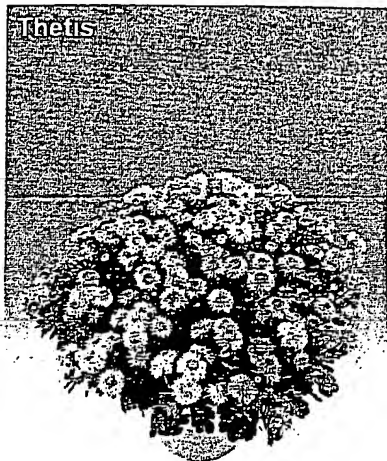
Manakin

★ Showmakers ★
★
★
★
Multiflora

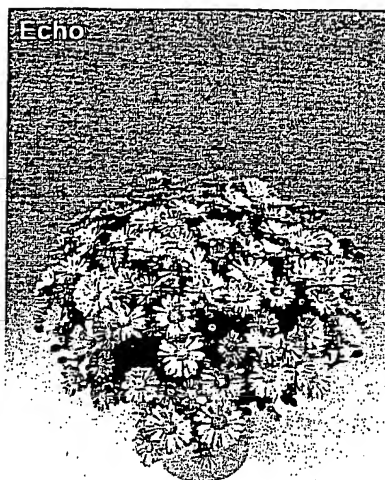
Odysseus



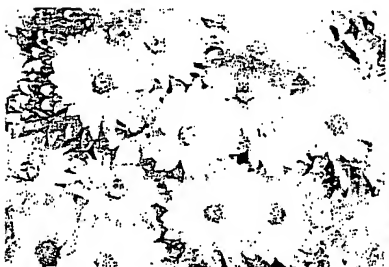
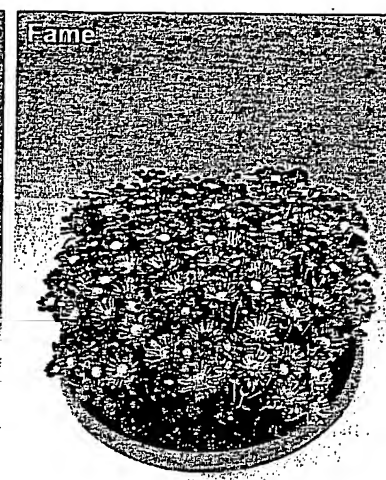
Thetis



Echo



Fame



Jason



Odysseus



Firecracker



Helios



Odin



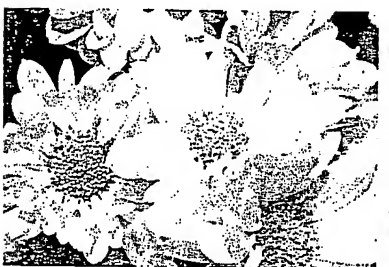
Ossa



Castor



Echo



Cockatoo



Minerva



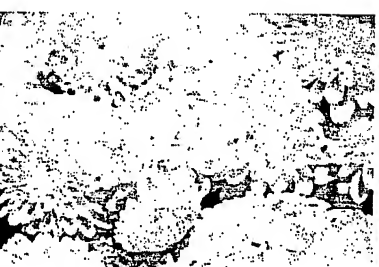
Xanthus



Feniks



Aurora white



Egret



Thetis



Luna

ShowmakersTM

Grandiflora

Grandiflora

name	color	flower	vigor	response	RT	patent	remark
Aurora White	White	Daisy	M	E	7	USPPP	Spoontype daisy
Blackcatoo	White	Daisy	M	E	7	USPPP	Midsize daisy
Clason	White	Daisy	T	E	7	USPPP	Very big white duplex daisy
Edlin	White	Daisy	M	VE	6	USPPP	Midsize daisy
Amor Spider White	White	Decorative	M	M	7	USPPP	True white spider decorative
Amor White	White	Decorative	M	M	7	USPPP	Part of Amor family
Linerva	White	Decorative	M	VE	6	USPPP	Midsize decorative
Odysseus	White	Decorative	M	M	8	USPP 11,637	Lots of smaller decorative flowers
Issa	White	Decorative	M	VE	6	USPPP	Nice decorative with cream eye
Regret	Cream	Decorative	M	E	7	USPP 10,214	Cream/white, lots of flowers
Bandpiper	Cream	Decorative	M	L	8	USPP 10,452	Cream/coral, lots of flowers
Firecracker	Yellow	Daisy	M	E	7	-	Midsize daisy
Anthus	Yellow	Daisy	M	VE	6	USPP 11,625	Attractive yellow daisy
Amor Yellow/White	Yellow	Decorative	M	M	7	USPPP	Special 2-tone flower
Castor	Yellow	Decorative	T	E	7	USPPP	Great flower
Hetis	Yellow	Decorative	T	VE	6	USPPP	2-tone with attractive orange eye
Echo	Bronze	Daisy	M	M	7	USPPP	Tan daisy with dark red buds
Game	Bronze	Daisy	T	M	7	USPPP	Red/bronze daisy
Helios	Bronze	Daisy	S	VE	6	USPPP	Midsize daisy
Heniks	Bronze	Decorative	M	L	8	USPPP	Golden yellow/bronze
Juna	Bronze	Decorative	M	E	7	USPPP	2-tone bronze, light with dark orange center
Angfisher	Bronze	Decorative	T	L	8	USPP 1,497	Nice orange/bronze midsize decorative
Juna	Bronze	Decorative	M	M	7	USPPP	Golden yellow/bronze
Loadrunner	Bronze	Decorative	M	E	7	USPP 11,298	Light bronze
Argos	Orange	Decorative	M	VE	6	USPPP	Light orange, excellent color retention
Thor	Orange	Decorative	T	E	7	USPPP	Pumpkin orange
Treya	Salmon	Decorative	M	E	7	USPPP	Nice big decorative
Lovebird	Salmon	Decorative	M	M	8	USPP 11,301	Bronze/Salmon small decorative
Beron	Salmon	Decorative	M	M	8	USPP 11,659	Coral/salmon
Amor Coral	Coral	Decorative	M	E	7	USPPP	Attractive color, part of Amor family
Aurora Pink	Pink	Daisy	M	E	7	USPPP	Spoontype daisy
Gothic	Pink	Daisy	M	E	7	-	Dark pink daisy
Peach Light	Pink	Daisy	M	E	7	USPPP	Peach/pink, striking color
Amor Pink	Pink	Decorative	M	M	7	USPPP	Part of Amor family
Amor Dark Pink	Pink	Decorative	M	M	7	USPPP	Part of Amor family
Beres	Pink	Decorative	T	M	7	USPPP	2-tone pink with white center
Ho Dark	Pink	Decorative	T	L	8	USPPP	Semi decorative
Skylark	Pink	Decorative	M	L	8	USPP 10,195	Bright pink
Syllabub	Purple	Anemone	T	M	7	USPPP	Spoon anemone
Aurora Purple	Purple	Daisy	M	E	7	USPPP	Spoontype daisy
Adonis	Purple	Decorative	M	VE	6	USPPP	Dark purple
Cupido	Purple	Decorative	M	VE	6	USPPP	Light purple
Delphi	Purple	Decorative	M	E	7	USPPP	Good flower, good habit
Hermes	Purple	Decorative	M	E	7	USPP 11,717	Midsize decorative
Isis	Purple	Decorative	M	L	8	USPP 11,254	Deep purple
Oricket	Purple	Decorative	S	L	8	USPP 11,586	Deep purple
Ilrena	Purple	Decorative	M	E	7	USPPP	Light purple
Lenus	Purple	Decorative	M	M	7	USPPP	Very deep striking purple

Listing—Showmakers

Grandiflora

name	color	flower	vigor	response	RT	patent	remark
Commedienne	Red	Anemone	T	L	8	USPPP	Bright red with striking yellow center
Nightingale	Red	Button	T	M	8	USPPP	Upright plantshape
Cyclops	Red	Daisy	M	M	7	USPPP	Duplex daisy
Jenny Wren	Red	Decorative	M	E	7	USPP 10,213	Nice red decorative, upright plant
Peacock VZ Royal	Red	Decorative	M	M	7	USPPP	Nice deep velvet red
Pluto	Red	Decorative	T	E	7	USPPP	Upright plantshape
Red Start	Red	Decorative	M	L	8	USPP 10,217	Bronze/red small decorative
Jenny Wren Crimson	Maroon	Decorative	M	M	7	USPPP	Deep color, good color retention
Mithra	Maroon	Decorative	M	M	7	USPPP	Very attractive color, good color retention

Multiflora

name	color	flower	vigor	response	RT	patent	remark
Unicorn	White	Button	M	M	7	USPPP	2-tone button with cream center
Titan	White	Daisy	M	E	7	USPPP	Nice white daisy with pink buds
Nighthawk Lemon	Yellow	Decorative	M	E	7	USPPP	Lemon/yellow
Cronus	Yellow	Decorative	M	M	7	USPPP	Bright sunny decorative
Gold Crest	Yellow	Decorative	M	E	7	USPP 11,606	Excellent breaking
Gold Finch	Yellow	Decorative	M	M	8	USPP 10,463	Midsized decorative
Mars	Orange	Daisy	M	L	8	USPPP	2-tone duplex daisy
Medea	Salmon	Daisy	S	VE	6	USPPP	Lots of flowers
Follies	Pink	Button	M	L	8	USPPP	Nice 2-tone with green center, tons of flowers
Nighthawk	Pink	Decorative	M	E	7	-	Small decorative
Medusa	Pink	Decorative	M	M	7	USPPP	Beautiful dark eye
Allegro	Purple	Button	M	L	8	USPPP	Tons of flowers
Amata	Purple	Decorative	M	M	7	USPPP	Green center, special flower
Manakin	Red	Decorative	M	M	8	USPP 11,521	Deep red

Multimini

name	color	flower	vigor	response	RT	patent	remark
Starlet Ivory	White	Daisy	S	E	7	USPPP	Pure white with dark eye, no pollen
Starlet White	White	Daisy	M	M	7	USPPP	Flower starts cream turns white
Juno	Yellow	Daisy	M	M	7	USPPP	Bright sunny daisy
Phoebe	Yellow	Daisy	M	M	8	USPPP	Bright yellow little flower
Starlet Yellow	Yellow	Daisy	S	E	7	USPPP	Tons of small daisy flowers
Starlet Bronze	Bronze	Anemone	M	M	7	USPPP	Red buds with bronze daisies
Dove Bronze	Bronze	Daisy	S	VE	6	USPPP	Small bronze daisy, lots of flowers. Excellent for 5" pots
Starlet Coral	Coral	Daisy	S	M	7	USPPP	Light coral, cute daisy
Dove	Pink	Daisy	M	VE	6	USPPP	Small pink daisy, lots of flowers
Starlet Blush	Pink	Daisy	M	M	7	USPPP	Pink with bright yellow center, surrounded by a white ring
Starlet Pink	Pink	Daisy	S	M	7	USPPP	Light pink daisy with dark pink buds

Vigor

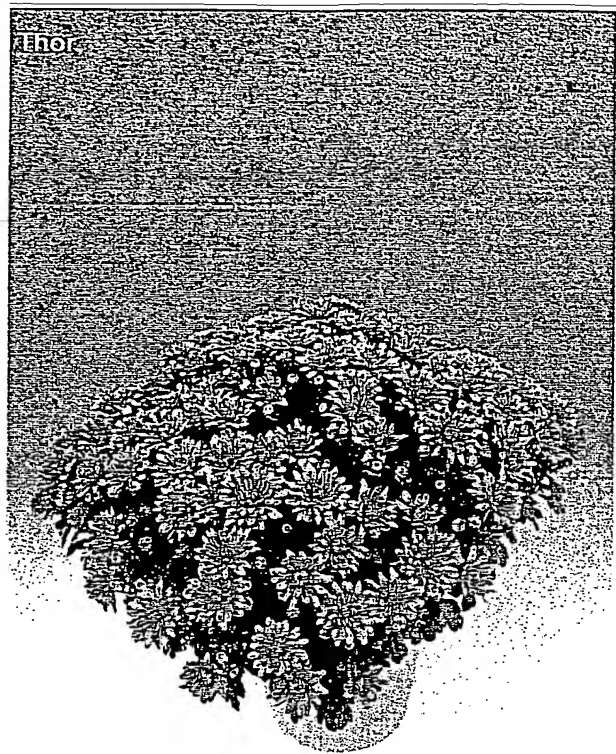
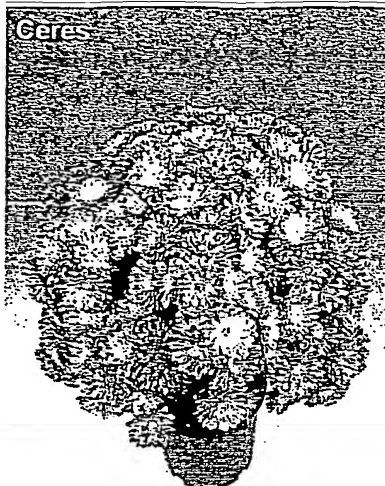
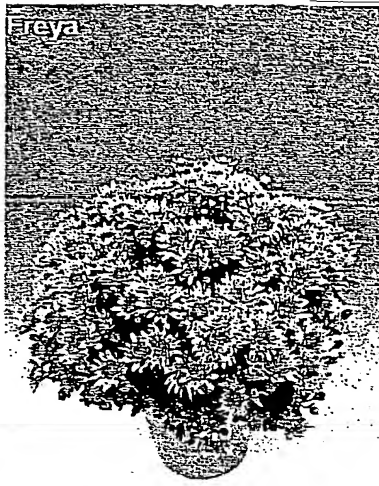
Response

RT

S-Small, M-Medium, T-Tall

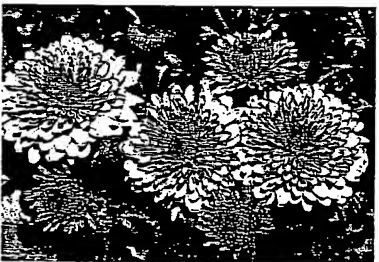
VE-Very Early, E-Early, M-Medium, L-Late

Response Time



Sandpiper

Argos



duna



Thor



Peach Light



Ceres



Roadrunner



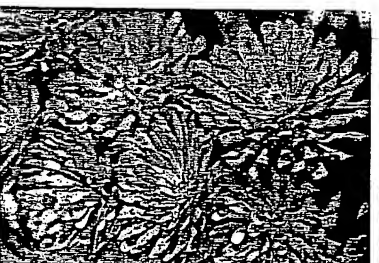
Lovebird



Rio dark



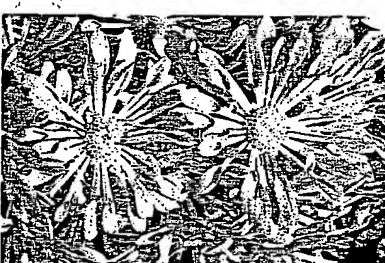
Skylark



Kingfisher



Freya



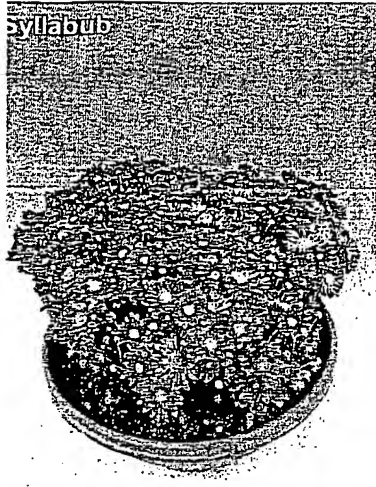
Aurora pink



Oberon

ShowmakersTM★

Grandiflora



Syllabub

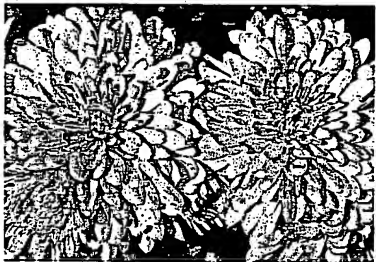


Mithra



Cyclops

Jenny Wren



Cupido



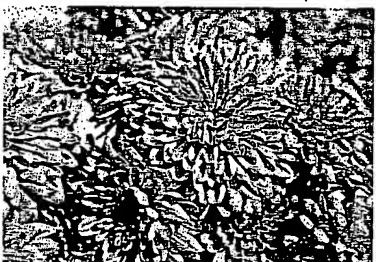
Delphi



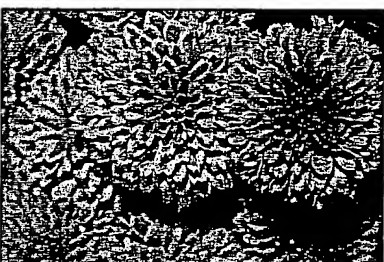
Lorikeet



Peacock VZ Royal



Sirena



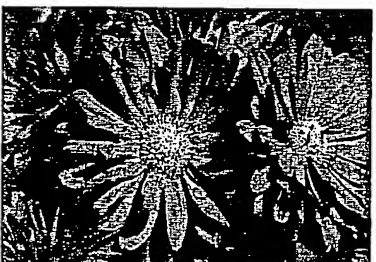
Adonis



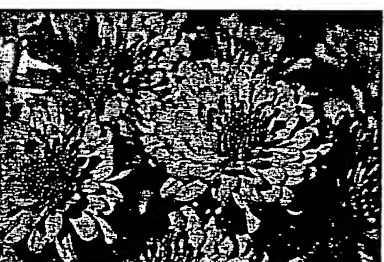
Venus



Pluto



Gothic



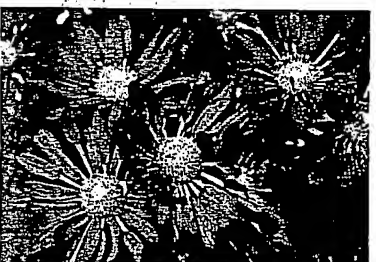
Hermes



Comedienne



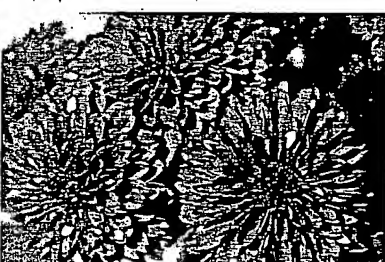
Red Start



Aurora purple



Ibis



Nightingale



Jenny Wren crimson

ShowmakersTM
Grandiflora

Showmakers™

★ PLANNING, QUALITY and PROFITABILITY

When grown well, garden mums make such a beautiful crop. To be successful you should always make a plan and you must ask yourself the following questions.

How many garden mums will I be able to sell, in what size container, and most importantly at what profitable price? Please note, how many can I sell profitably is a much different question from how many can I produce?

Once you decide how many you will be able to sell, you must ask yourself, do I have enough space to produce this quantity of only high quality plants? Quality is so important to sell through. Producing too many plants too close together is one of the best ways to produce poor quality. Poor quality will eventually lead to a decrease in sales and profitability.

What color percentages and what flower forms will sell best for the season I am growing for, spring, summer, and fall?

What varieties work best and what do my notes tell me from last year's production? There is no excuse for not taking notes each year.

Once these important questions have been answered you might want to speculate on a 5 to 20 percent extra increase every year to keep your business growing.

CONTAINERS

There are many size containers suitable for growing garden mums made from plastic, fiber, and wood.

- Cell-packs, 4" - 4.5" pots
- 5", 6", 6.5" azalea and specialty square pots
- 1 gallon, 2 gallon, 3 gallon nursery containers
- 8" x 5" mum pans
- 12" - 14" color bowls
- 6", 8" and 12" hanging baskets
- Novelty containers such as bushel baskets and wooden boxes.

SOIL

There are many professional soil mixes available that will work for growing garden mums. If you mix your own soil, we suggest that you use a professional soil scientist to help make sure you get the mixture correct. They will analyze your water and match your soil chemistry to it. A well-drained mix is essential, but too light a mix may dry out too easily and not provide enough anchor and weight to support the crop, especially when the plants are being displayed for sale. The starting pH in a soil based mix should be 6.0 to 6.5 and in a soil less mix slightly lower at 5.5 to 6.0.

ROOTING AND PLANTING

Starting the crop correctly makes all the difference. If you are going to buy unrooted cuttings stick them as soon as possible. We suggest that you use a 72, 105, or 128 tray. A suggested beginning mist cycle is 16 seconds on every 16 minutes.



Flower testing at Royal Van Zanten in Nipomo

As the crop begins to root in about 7 days, gradually back off the amount of mist. Never let the cuttings dry out. Apply a 1200 ppm application of B-9 at about 7 days. Feed through the mist system at 100 ppm of 20-10-20 and irrigate the plants with a feed of 100 ppm starting after 1 week. Use mum lighting in this propagation phase. Four to six hours of 10 foot-candles from 10 p.m. to 4 a.m. will help prevent premature budding. Plant your rooted cuttings as soon as they are well rooted or as soon as you receive them. Do not hold cuttings in trays and allow them to become over rooted. Be prepared. Have all the pots filled and slightly moist. It is important that you plant the cuttings deep leaving approximately 1-1.5" above the soil. Irrigate immediately after planting with feed and never allow the crop to dry out in the first 2 weeks. Syringe the plants during the heat of the day. This is very important to help prevent premature budding.

WHEN TO PLANT AND TIMING

Garden mums are short day plants and initiate flower buds in response to an interaction of day length and temperature. This critical initiation time varies between different climatic locations, but for a specific location is relatively the same from year to year. The time to flower from this critical initiation period for a particular variety is relatively fixed. Traditional Natural Season garden mums for fall are planted from May into early July. The time of year to plant depends on a number of factors: projected sales dates, the size of the pot, number of cuttings per pot, and local climatic conditions. For large finished plants with one cutting per pot, plant earlier. If you want a large plant with less crop time, plant more cuttings per pot a few weeks later. Smaller plants in smaller pots may be planted even later. There is a critical planting week for your local area that will be the last planting week after which planting will not make sense. It is essential that you keep good notes. For example if your 4.5" are consistently too big, first make sure you have selected the proper variety, and then decide if you selected the best planting week. Consider planting one week later next year.

*G*rowing guide

If your 1 cutting 8" pans are consistently too small, again first make sure you have selected the proper variety, and then consider planting them one week earlier next year. After carefully evaluating your crop each year you will be able to fine-tune the planting time to produce consistent plant sizes that will flower in relatively the same time period each year.

SHORT DAY TREATMENT USING BLACK CLOTH

Growing garden mums using mum lighting and black cloth is not that difficult and allows the grower to program the crop to flower any week of the year all year round (AYR). The most important thing is to make sure the plant is grown in long days to the proper size for the size pot it is planted in, before you put it into the short day period. If you are growing in cell-packs and small pots, you will not need many long days. If you are trying to grow larger pots, then the plant will need more long days before black clothing.

It is better to black cloth the crop until the buds are well-formed and almost ready to open. However, some growers only have enough black cloth area to cover part of their crop and will give a 4 week short day treatment to initiate buds and then move the crop back into the natural long days. Careful variety selection is necessary using this technique. Some cultivars need more than 4 weeks of short days for them to initiate, grow, and develop evenly.

Pulling a lightweight black plastic across the crop when



Trial at Sant greenhouses, Canada

growing outside may be done to bring the plants in earlier. Some growers use supports and nylon wire slightly above the crop or simply lay the plastic right on the plants and hold it down along the edges with pipes, soil, or stones. This may not be that easy to manage if you get heavy rain or wind. We suggest that growing earlier varieties suited for your climate might be a better option.

SPACING

Proper spacing is an absolute key to excellent quality. The proper spacing depends on the pot size and the desired finished product. Too tight a spacing promotes weak, stretched, poor quality plants. A grower should strive for excellent quality with the proper spacing.

- Cell-packs - No spacing
- 4"-4.5" pots may be spaced on 6 to 9 inch centers
- 5", 6", and 6.5" pots may be spaced on 10 to 15 inch centers
- 8", 1 gallon, 2 gallon containers may be spaced on 16 to 24 inch centers.

Grandiflora
Multiflora
Multimini

IRRIGATION AND FEEDING

Garden mums may be grown using overhead irrigation, sub irrigation, and drip methods. We feel that sub irrigation and drip work the best. Keeping the foliage dry helps to prevent spotting of the foliage and foliar diseases from getting out of control. Constant liquid feeding works very well using a 20-10-20 type of fertilizer at a rate of 200-350 ppm. Combination tank mix feeds of potassium nitrate, calcium nitrate, and ammonium nitrate may be used and growers should consult with their local soil and horticultural specialists for recipes. Slow release fertilizers in combination with liquid feeds may also be used, but are less predictable.

PINCHING

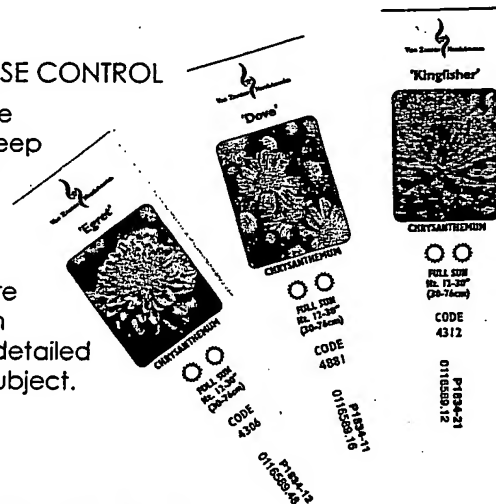
There is a current trend to not pinch garden mums. It is true that many modern varieties do not need any pinching at all. They will pinch themselves by producing little premature buds that will not develop, but cause branching to occur. Not all varieties are the same however. A good grower should inspect his crop to see if any of the cultivars need pinching. One pinch after 14 to 21 days of growth or no pinch is sufficient with today's modern varieties.

GROWTH REGULATORS

B-Nine for height control has been used for decades, is the preferred chemical, and does improve the quality of a mum crop. Use a rate of 1200 to 2500 ppm as needed, starting when the plants are growing well and the side shoots are 3-4 inches long. However, for most outside garden mum growing it is not necessary. Selection of varieties, proper planting date, and pinching are good alternatives to consider before relying too heavily on expensive applications of B-Nine. Bonzi is a very effective chemical and takes more skill to apply correctly. A 2 ppm drench when the plants are at the desired finish height will stop the growth. Growers must be extremely careful when using Bonzi and we do not recommend it. Florel has been used to promote branching and prevent premature budding and it is very effective. Florel does delay flowering. A rate of 300-500 ppm may be used. Different varieties respond differently and a grower must be careful and have experience with Florel application. New varieties do not need Florel applications if a grower waters and feeds properly.

INSECT AND DISEASE CONTROL

Preventive sprays are recommended to keep pesky little problems from developing into crop losses. The OFA "Tips on Managing Floriculture Crop Problems" is an excellent source of detailed information on this subject.



Tags are available for our Showmaker-varieties.

Name	Color	Type	Series	Page	Name	Color	Type	Series	Page
Very Early					Medium continued				
Odin	White	Daisy	Grandiflora	7	Unicorn	White	Button	Multiflora	6
Minerva	White	Decorative	Grandiflora	7	Odysseus	White	Decorative	Grandiflora	7
Ossa	White	Decorative	Grandiflora	7	Starlet white	White	Daisy	Multimini	5
Xanthus	Yellow	Daisy	Grandiflora	7	Juno	Yellow	Daisy	Multimini	5
Thetis	Yellow	Decorative	Grandiflora	7	Phoebe	Yellow	Daisy	Multimini	5
Dove bronze	Bronze	Daisy	Multimini	5	Amor yellow/white	Yellow	Decorative	Grandiflora	15
Helios	Bronze	Daisy	Grandiflora	7	Cronus	Yellow	Decorative	Multiflora	6
Argos	Orange	Decorative	Grandiflora	10	Gold Finch	Yellow	Decorative	Multiflora	6
Medea	Salmon	Daisy	Multiflora	6	Starlet bronze	Bronze	Anemone	Multimini	5
Dove	Pink	Daisy	Multimini	5	Echo	Bronze	Daisy	Grandiflora	7
Adonis	Purple	Decorative	Grandiflora	11	Fame	Bronze	Daisy	Grandiflora	7
Cupido	Purple	Decorative	Grandiflora	11	Luna	Bronze	Decorative	Grandiflora	7
Early					Lovebird	Salmon	Decorative	Grandiflora	10
Aurora white	White	Daisy	Grandiflora	7	Oberon	Salmon	Decorative	Grandiflora	10
Cockatoo	White	Daisy	Grandiflora	7	Starlet coral	Coral	Daisy	Multimini	5
Jason	White	Daisy	Grandiflora	7	Amor dark pink	Pink	Decorative	Grandiflora	15
Starlet Ivory	White	Daisy	Multimini	5	Amor pink	Pink	Decorative	Grandiflora	15
Ritan	White	Daisy	Multiflora	6	Ceres	Pink	Decorative	Grandiflora	10
Egret	Cream	Decorative	Grandiflora	7	Medusa	Pink	Decorative	Multiflora	6
Firecracker	Yellow	Daisy	Grandiflora	7	Starlet blush	Pink	Daisy	Multimini	5
Starlet yellow	Yellow	Daisy	Multimini	5	Starlet pink	Pink	Daisy	Multimini	5
Castor	Yellow	Decorative	Grandiflora	7	Syllabub	Purple	Anemone	Grandiflora	11
Gold Crest	Yellow	Decorative	Multiflora	6	Amata	Purple	Decorative	Multiflora	6
Nighthawk lemon	Yellow	Decorative	Multiflora	6	Venus	Purple	Decorative	Grandiflora	11
duna	Bronze	Decorative	Grandiflora	10	Jenny Wren crimson	Maroon	Decorative	Grandiflora	11
Roadrunner	Bronze	Decorative	Grandiflora	10	Mithra	Maroon	Decorative	Grandiflora	11
Thor	Orange	Decorative	Grandiflora	10	Nightingale	Red	Button	Grandiflora	11
Freyja	Salmon	Decorative	Grandiflora	10	Cyclops	Red	Daisy	Grandiflora	11
Amor coral	Coral	Decorative	Grandiflora	15	Manakin	Red	Decorative	Multiflora	6
					Peacock VZ Royal	Red	Decorative	Grandiflora	11
					Late				
Aurora pink	Pink	Daisy	Grandiflora	15	Sandpiper	Cream	Decorative	Grandiflora	10
Gothic	Pink	Daisy	Grandiflora	11	Feniks	Bronze	Decorative	Grandiflora	7
Peach Light	Pink	Daisy	Grandiflora	10	Kingfisher	Bronze	Decorative	Grandiflora	10
Nighthawk	Pink	Decorative	Multiflora	6	Mars	Orange	Daisy	Multiflora	6
Aurora purple	Purple	Daisy	Grandiflora	11	Follies	Pink	Button	Multiflora	6
Delphi	Purple	Decorative	Grandiflora	11	Rio Dark	Pink	Decorative	Grandiflora	10
Termes	Purple	Decorative	Grandiflora	11	Skylark	Pink	Decorative	Grandiflora	10
Sirena	Purple	Decorative	Grandiflora	11	Allegro	Purple	Button	Multiflora	6
Jenny Wren	Red	Decorative	Grandiflora	11	Ibis	Purple	Decorative	Grandiflora	11
Pluto	Red	Decorative	Grandiflora	11	Lorikeet	Purple	Decorative	Grandiflora	11
Medium					Commedienne	Red	Anemone	Grandiflora	11
Amor Spider white	White	Decorative	Grandiflora	15	Red Start	Red	Decorative	Grandiflora	11
Amor white	White	Decorative	Grandiflora	15					

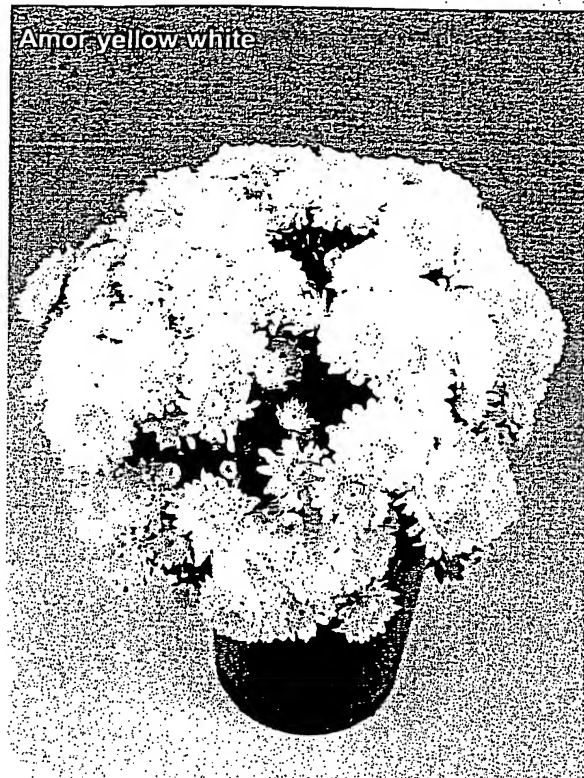
Response Listing—Showmakers



Amor pink

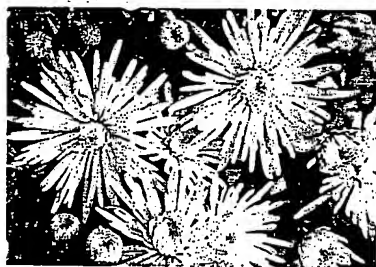


Amor spider white

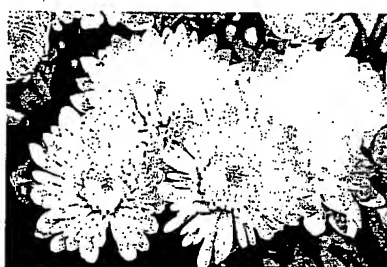


Amor yellow white

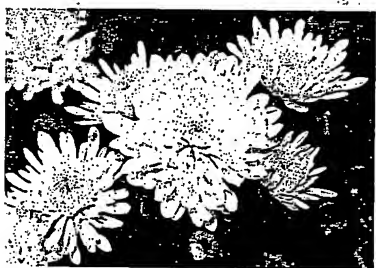
Don't forget, the Amor -
family also make fantastic
Spring mums !



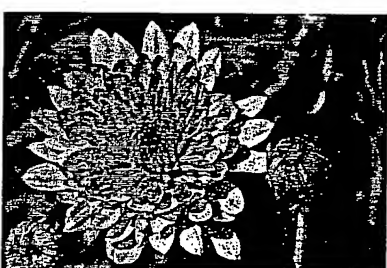
Amor spider white



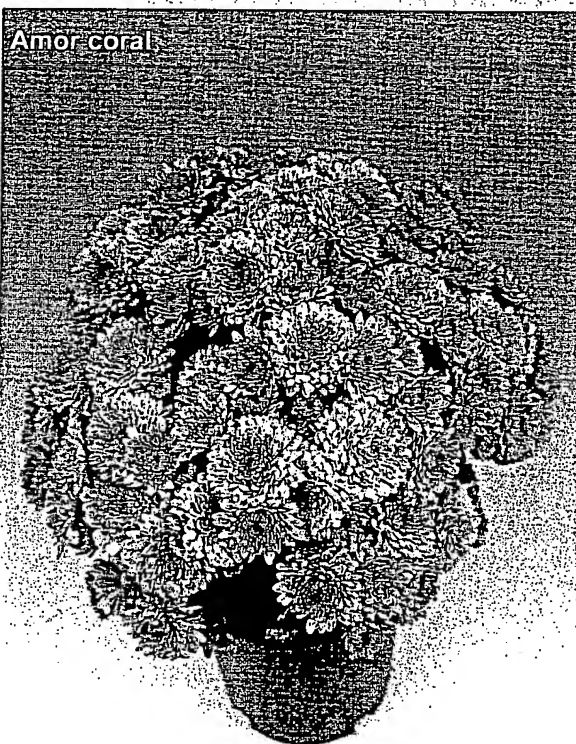
Amor white



Amor yellow white



Amor coral



Amor coral



Amor pink



Amor dark pink

AMOR is a splendid family of attractive
decoratives. A true family, that guarantees
uniformity and easy growing.

Showmakers™
Grandiflora

*A*mor-family

Royal Van Zanten cuttings are sold exclusively by Ball Seed in the USA and Ball Superior in Canada.
Please contact the Ball salesman in your area for information or orders :

Ball Superior

CANADA			
Max Epp Jr. Eastern Ontario	Phone: 519-942-4743 Fax: 519-942-0163	Jim Gibson Fairfield County, Connecticut; New York-Rockland and Westchester Counties; Metropolitan New York City, Long Island	Phone: 631-209-9449 Fax: 631-209-9494
Gay Gordon Atlantic provinces	Phone: 902-447-2211 Fax: 902-447-2251	Peter J. Gilmore Maryland, except the western panhandle; Delaware; Washington D.C.	Phone: 410-374-3291 Fax: 410-374-3529
Régent Houle Quebec	Phone: 450-491-1911 Fax: 450-491-3937	John Jensen Upstate New York, except Rockland and Westchester Counties	Phone: 716-586-7084 Fax: 716-586-7071
Paul Philp Niagara region of Ontario	Phone: 905-892-1264 Fax: 905-892-0760	Bob Luczal Eastern Massachusetts, except Essex County	Phone: 978-486-8216 Fax: 978-952-2788
James Robertson Lower mainland of British Columbia; Vancouver Island	Phone: 604-792-0477 Fax: 604-792-0887	Mitchell Rand Rhode Island; Connecticut, except Fairfield County; Western Massachusetts	Phone: 203-453-5567 Fax: 203-453-5398
Allan van Staaldin Southwestern and central Ontario	Phone: 905-331-5556 Fax: 905-331-5445	Rich Scall Eastern Pennsylvania; Southern New Jersey	Phone: 215-628-4327 Fax: 215-628-0708
John van Beveren Northwestern Ontario; Manitoba; Saskatchewan	Phone: 204-757-9936 Fax: 204-757-9212	Great Lakes	
Geoffrey S. Wood Alberta; Eastern British Columbia	Phone: 403-995-0392 Fax: 403-995-0394	Jason Adams Indiana	Phone: 317-818-0900 Fax: 317-818-1988
Pacific		Chris Bernacchi Central and Southwestern Ohio	Phone: 937-644-5050 Fax: 937-644-4040
John Alexander Central California	Phone: 805-481-7983 Fax: 805-474-9197	Brandon Fahrmeier Eastern Ohio except Washington County	Phone: 330-654-7623 Fax: 330-654-7629
Brian Hamed California-Los Angeles, Orange, Riverside and San Bernardino Counties; Hawaii	Phone: 909-695-4936 Fax: 909-695-3986	Troy Johnson Northwestern Ohio	Phone: 419-822-5915 Fax: 419-822-9534
Chuck Joachim Western and Central Oregon; California-Del Norte, Humboldt and Trinity Counties	Phone: 503-640-5039 Fax: 503-640-9318	Michelle Meyer Southwestern Michigan	Phone: 616-384-0126 Fax: 616-384-0127
Peter Kruger Central and Northern California, except Del Norte, Humboldt and Trinity Counties, incl. all of the San Francisco Bay area; Western Nevada	Phone: 916-369-8595 Fax: 916-369-8599	Jack Stokes Southeastern Michigan - Battle Creek area to Metropolitan Detroit	Phone: 616-341-9377 Fax: 616-341-9436
Miriam Levy California-San Diego and Imperial Counties	Phone: 760-929-0681 Fax: 760-929-0684	John Veigel Eastern Kentucky; Southern West Virginia; Ohio-Lawrence, Gallia, Meigs and Athens Counties	Phone: 859-223-5285 Fax: 859-223-0044
Jerry Pachulio Western Washington	Phone: 360-856-4108 Fax: 360-856-5258	David Yelays Northwestern section of Michigan's Lower Peninsula	Phone: 616-891-2477 Fax: 616-891-2479
Ed Rose California - Santa Barbara and Ventura Counties; other selected accounts	Phone: 805-929-3100 Fax: 805-929-2063	Midwest	
David R. Sontag Eastern Washington; Eastern Oregon; Idaho; Montana; Western South Dakota; Northern Wyoming; Alaska	Phone: 509-465-2730 Fax: 509-465-1621	Greg Bogart Eastern Wisconsin; Michigan's upper peninsula	Phone: 262-673-0266 Fax: 262-673-0160
Northeast		Coy Butner Northwestern Missouri; Northern and Western Iowa; Eastern Nebraska	Phone: 816-662-2129 Fax: 816-662-2219
Andrew Aiken Maine, New Hampshire, Vermont, Essex county; Massachusetts	Phone: 508-528-5024 Fax: 508-528-0886	Bob Cashman South Central Minnesota	Phone: 952-423-6730 Fax: 952-423-9184
Andy Brown Central Pennsylvania; Maryland panhandle; Eastern West Virginia	Phone: 717-540-9709 Fax: 717-540-9756	Mike DeRee Kansas; West Central Missouri; Central Nebraska	Phone: 316-522-0995 Fax: 316-522-3080
Chris Corwin Northern West Virginia; Western Pennsylvania; Washington County, Ohio	Phone: 724-693-0932 Fax: 724-693-0935		
John A. Cotton Northern and Central New Jersey	Phone: 973-838-2424 Fax: 973-492-5405		
		Russell K. Emerson Northwestern Wisconsin; Northern and Western Minnesota; North Dakota; Eastern South Dakota	Phone: 701-297-5911 Fax: 701-232-3866
		Matt Freeman Northern Illinois except Chicagoland area	Phone: 815-787-2597 Fax: 815-787-2598
		Derek Schrof Eastern Missouri; Southern Illinois	Phone: 636-300-1209 Fax: 636-447-0155
		Clyde Seery Southwestern Wisconsin; Southeastern Iowa	Phone: 319-351-2324 Fax: 319-351-6951
		Laura Thomas-Stachon Chicagoland area of Illinois	Phone: 847-697-6080 Fax: 847-697-6088
		Southeast	
		Cynthia Griffith Western North Carolina; Central and Northeastern South Carolina	Phone: 704-875-8852 Fax: 704-875-8856
		Nathan D. King Georgia; Northwestern and Southeastern South Carolina	Phone: 706-548-0699 Fax: 706-354-7824
		John McBryde Alabama; Florida panhandle	Phone: 334-279-8007 Fax: 334-277-0637
		Al Newsom Eastern North Carolina	Phone: 919-832-9776 Fax: 919-832-4513
		Dick Rose East Central and Southern Florida	Phone: 407-786-0210 Fax: 407-786-2702
		Peter Scherzer Virginia	Phone: 804-897-3330 Fax: 804-897-4440
		Karen Sopak West Central and Northern Florida	Phone: 941-722-7094 Fax: 941-722-8044
		Southwest	
		Steve Bartfield East Central Texas, incl. Dallas/Fort Worth metroplex	Phone: 872-618-6777 Fax: 972-618-6555
		Ron Brum Colorado; Northern New Mexico; Western Nebraska; Wyoming, except for western and northern Counties	Phone: 303-805-0790 Fax: 303-805-0734
		Maria Bolinger Tennessee; Western Kentucky	Phone: 615-826-3387 Fax: 615-826-4529
		Carrie Chang Oklahoma; Northeastern Texas	Phone: 405-755-1773 Fax: 405-755-2060
		Donnie Clayton Mississippi; Southern Louisiana	Phone: 870-862-9917 Fax: 870-862-9998
		George A. Freas Southern New Mexico; Western Texas	Phone: 254-897-3696 Fax: 254-897-3198
		Michael HENZLER Southern Texas	Phone: 830-460-4145 Fax: 830-460-4116
		Don Humphries Utah; Arizona; far western Counties of Wyoming; Eastern Nevada	Phone: 435-628-5973 Fax: 435-628-9140

BallSeed



RoyalVanZanten
surprising nature

Royal Van Zanten LLC
790 Live Oak Ridge road
P.O.Box 1920
Nipomo, CA 93444

Telephone : 1 (805) 929 2858
Fax : 1 (805) 929 2772
E-Mail : cuttings.usa@royalvanzanten.com

www.royalvanzanten.com

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

THIS PAGE BLANK (USPTO)